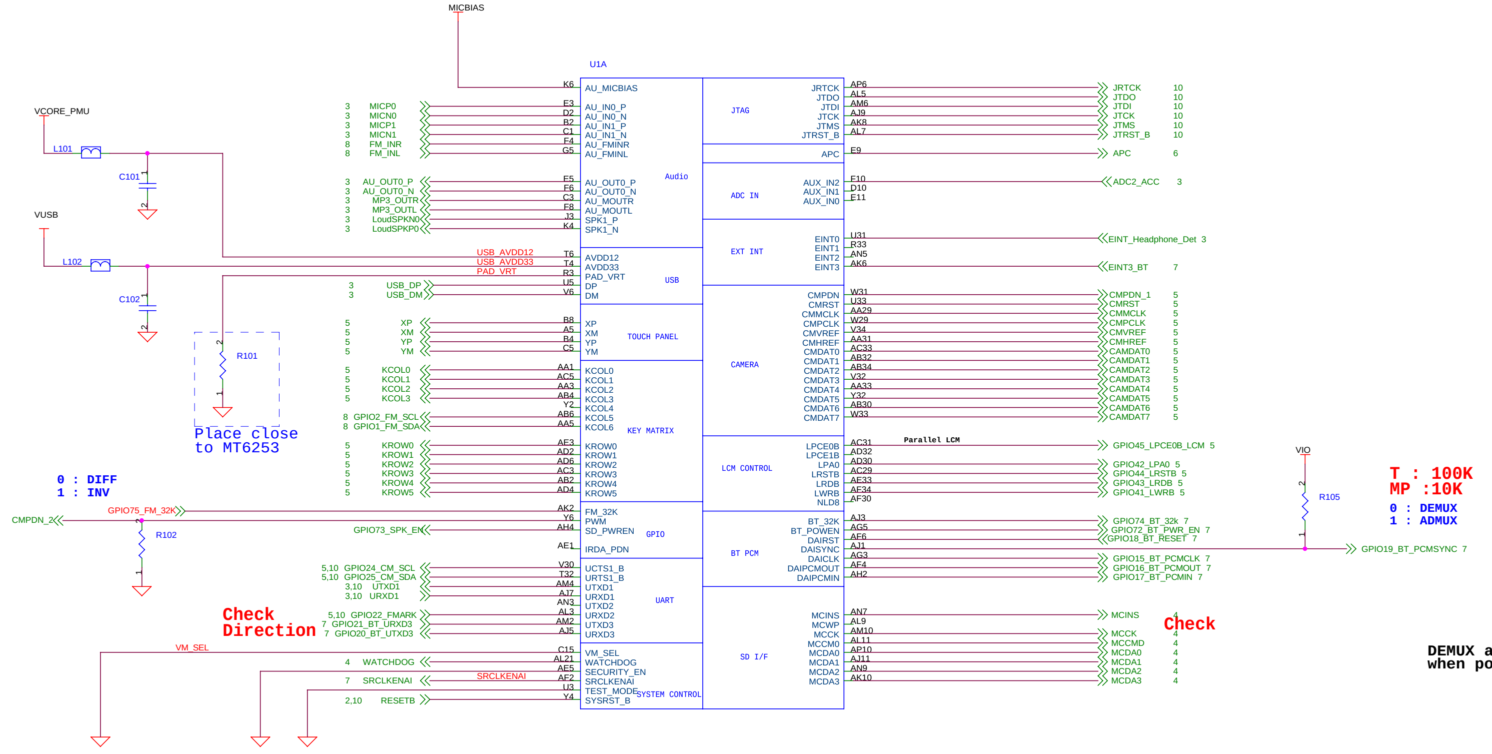
BASEBAND



DEMUX and ADMUX is chosen when power on only.

I2S Application Note:

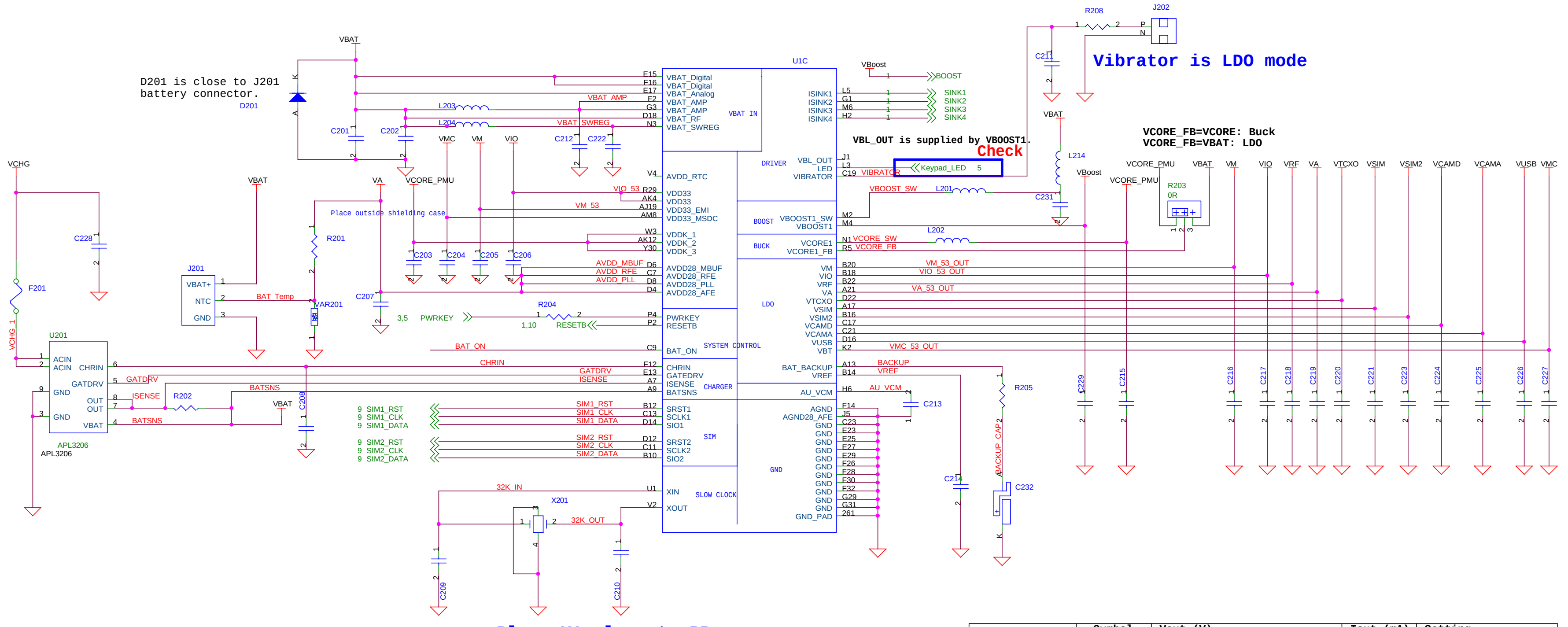
I2S_WS	Pin. AE1/IRDA_PDN
I2S_DATA	Pin AN3UTXD2
I2S_CLK	Pin AF30/NLD8

LZ 0628 DELETE KCOL4;
ADC0_LCM_ID

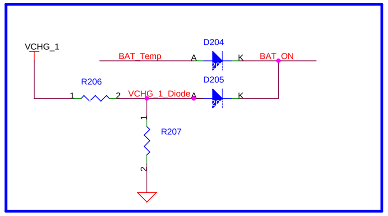
LZ 0626 change KCOL5 tobe FM SCL;
Add KROW4,Krow5, in according to Konka's SCH;
LZ 0701 DELETE FM_32K CLK;
LZ 0702 DELETE SECRITY_EN NET;

Title: 01 Baseband (MT6253)		
Size: A2	Document Number: MT6253 Beta Site Phone	Rev: V3.0
Date: Thursday, September 03, 2009	Sheet 1 of 9	

BASEBAND-POWER



Check,Trace 4mil is enough

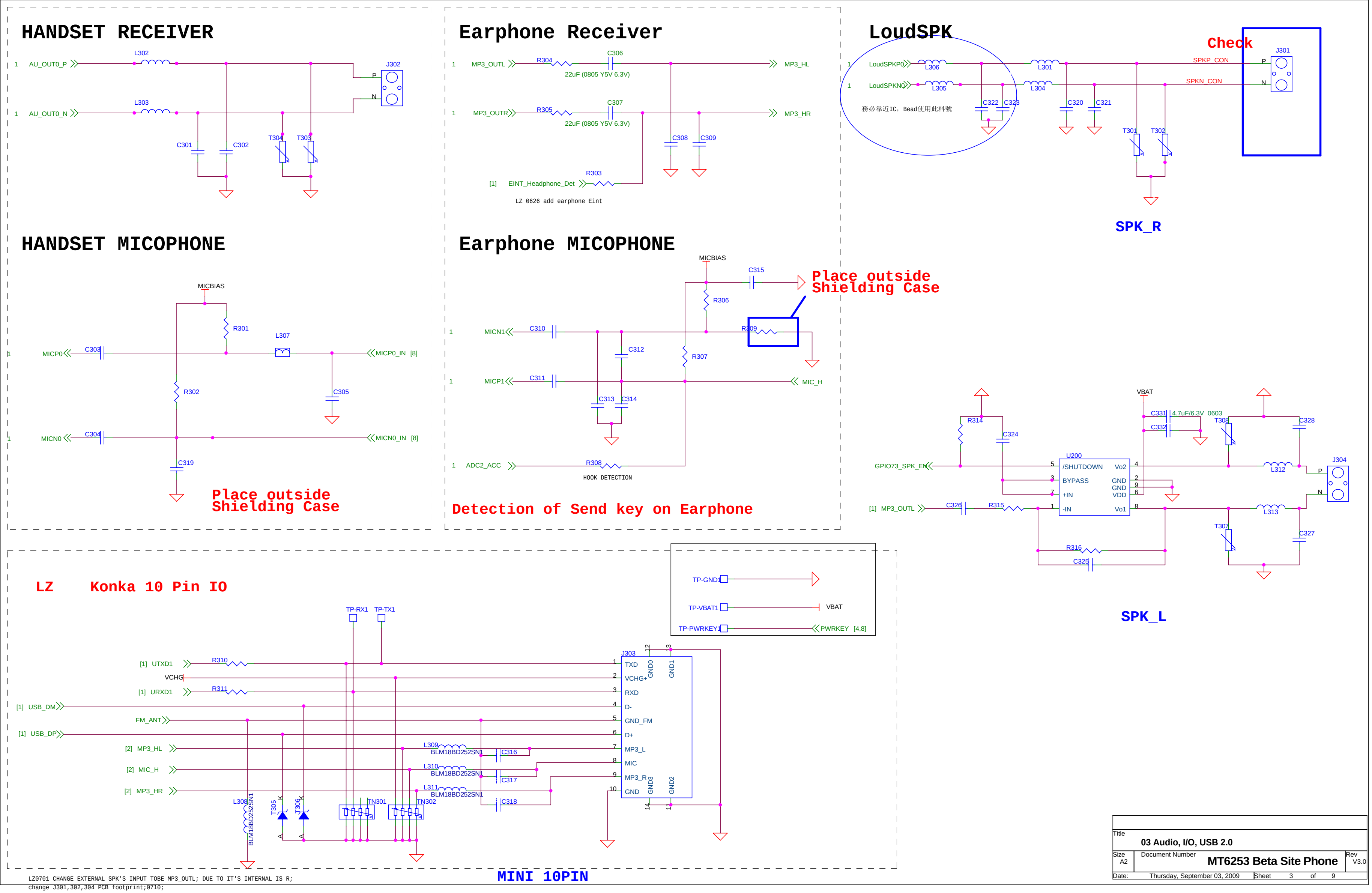


	Symbol	Vout (V)	Iout (mA)	Setting
Buck	VCORE	1.2	200	
RF LDO	VRF	2.8	200	
Analog LDO	VTCXO	2.8	20	
	VA	2.8	125	
	VCAM_A	1.5/1.8/2.5/2.8	150	
Digital LDO	VM	1.8/2.8	200	VM_SEL
	VIO	2.8	100	
	VSIM	1.8/3.0	100	
	VUSB	3.3	100	
	VBT	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100	
	VCAM_D	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100	
	VSIM2	1.3/1.5/1.8/2.5/2.8/3.0/3.3	100	
Vibrator	VIBR	1.8/3.0	200	
RTC	VBACKUP	2.8	2	
Boost Converter	VBOOST1	3.4~5.5	100	

LZ0701 DELETE GOLD-BATTERY;
DELETE DUAL-DIODE DESIGN;

LZ0701 change L203 tobe 0603 package;
LZ0716 ADD R208 0R FOR MOTOR;
delete D203 add L214;

Title	02 Power & PMIC (MT6253)		
Size A2	Document Number	MT6253 Beta Site Phone	Rev V3.0
Date: Friday, September 04, 2009		Sheet 2 of 9	



HANDSET RECEIVER
AU_OUT0_P
AU_OUT0_N
L302
L303
J302
C301
C302
T304
T303
Earphone Receiver
MP3_OUTL
MP3_OUTR
R304
R305
C306
C307
22uF (0805 Y5V 6.3V)
MP3_HL
MP3_HR
C308
C309
R303
EINT_Headphone_Det
LZ 0626 add earphone Eint
LoudSPK
LoudSPKP0
LoudSPKN0
L306
L305
L301
L304
C322
C323
C320
C321
务必靠近IC, Bead使用此料號
Check
SPKP_CON
SPKN_CON
J301
T301
T302
SPK_R
HANDSET MICOPHONE
MICBIAS
R301
L307
C303
MICP0
MICP0_IN [8]
R302
C305
C304
MICN0
MICN0_IN [8]
C319
Place outside Shielding Case
Earphone MICOPHONE
C315
R306
R309
Place outside Shielding Case
MICN1
C310
C312
R307
MICP1
C311
MIC_H
C313
C314
ADC2_ACC
R308
HOOK DETECTION
Detection of Send key on Earphone
VBAT
C331 4.7uF/6.3V 0603
C332
T308
C328
R314
C324
U200
GPIO73_SPK_EN
/SHUTDOWN
BYPASS
+IN
-IN
Vo2
GND
GND
VDD
Vo1
L312
J304
MP3_OUTL
C326
R315
L313
T307
C327
R316
C325
SPK_L
LZ Konka 10 Pin IO
TP-GND1
TP-VBAT1
VBAT
TP-PWRKEY1
PWRKEY [4,8]
TP-RX1
TP-TX1
UTXD1
R310
VCHG
URXD1
R311
USB_DM
FM_ANT
USB_DP
MP3_HL
MIC_H
MP3_HR
L309 BLM18BD252SN1
L310 BLM18BD252SN1
L311 BLM18BD252SN1
C316
C317
C318
J303
TXD
VCHG+
RXD
D-
GND_FM
D+
MP3_L
MIC
MP3_R
GND
GND0
GND1
GND2
GND3
L308 BLM18BD252SN1
T305
T306
TN301
TN302
MINI 10PIN
LZ0701 CHANGE EXTERNAL SPK'S INPUT TOBE MP3_OUTL; DUE TO IT'S INTERNAL IS R;
change J301,302,304 PCB footprint;0710;
Title
03 Audio, I/O, USB 2.0
Size A2
Document Number
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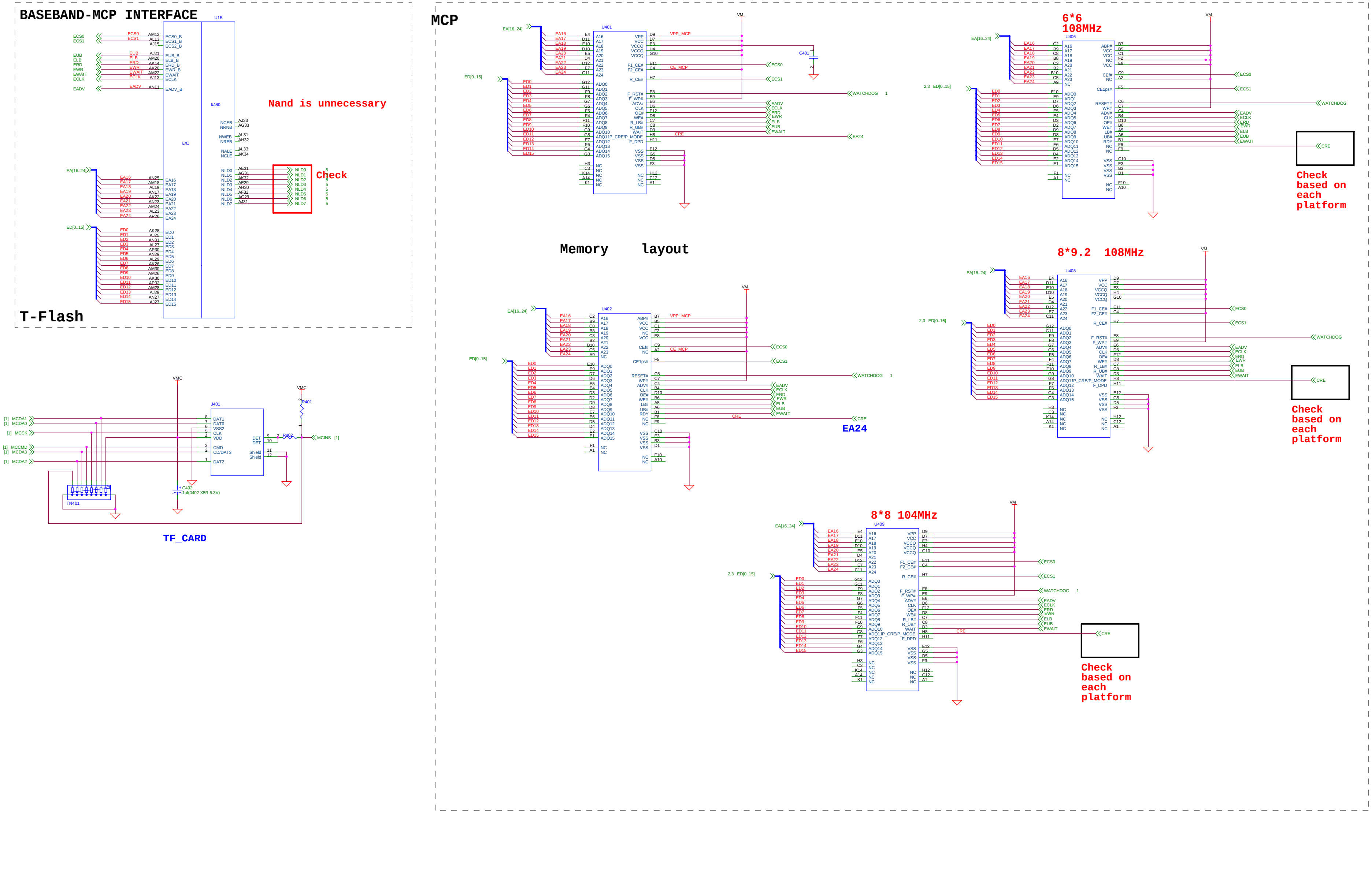
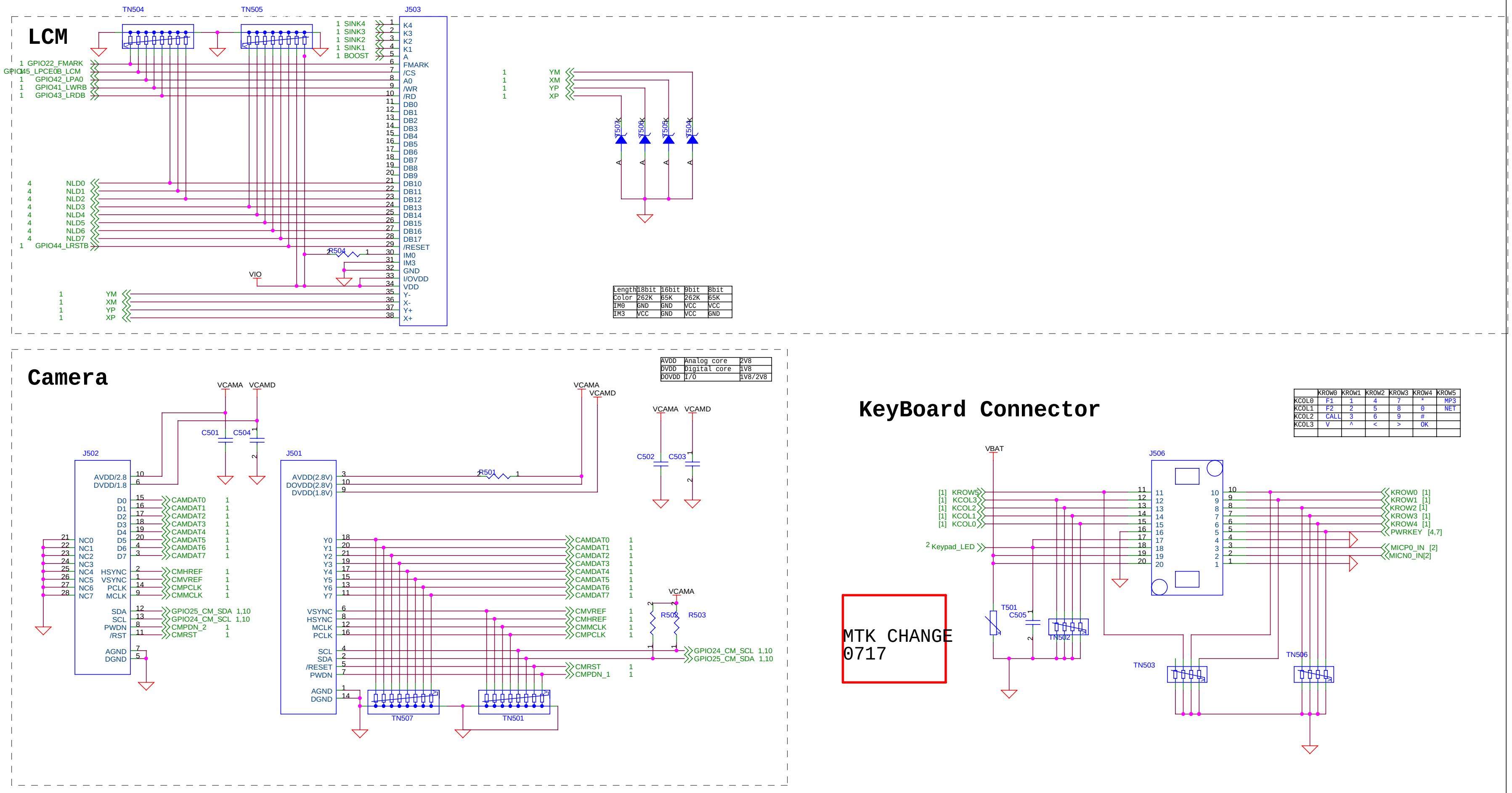


Title	04 Memory, T-Flash	
Size A1	Document Number: MT6253 Beta Site Phone	Rev V3.0
Date: Thursday, September 03, 2009	Sheet 4 of 9	



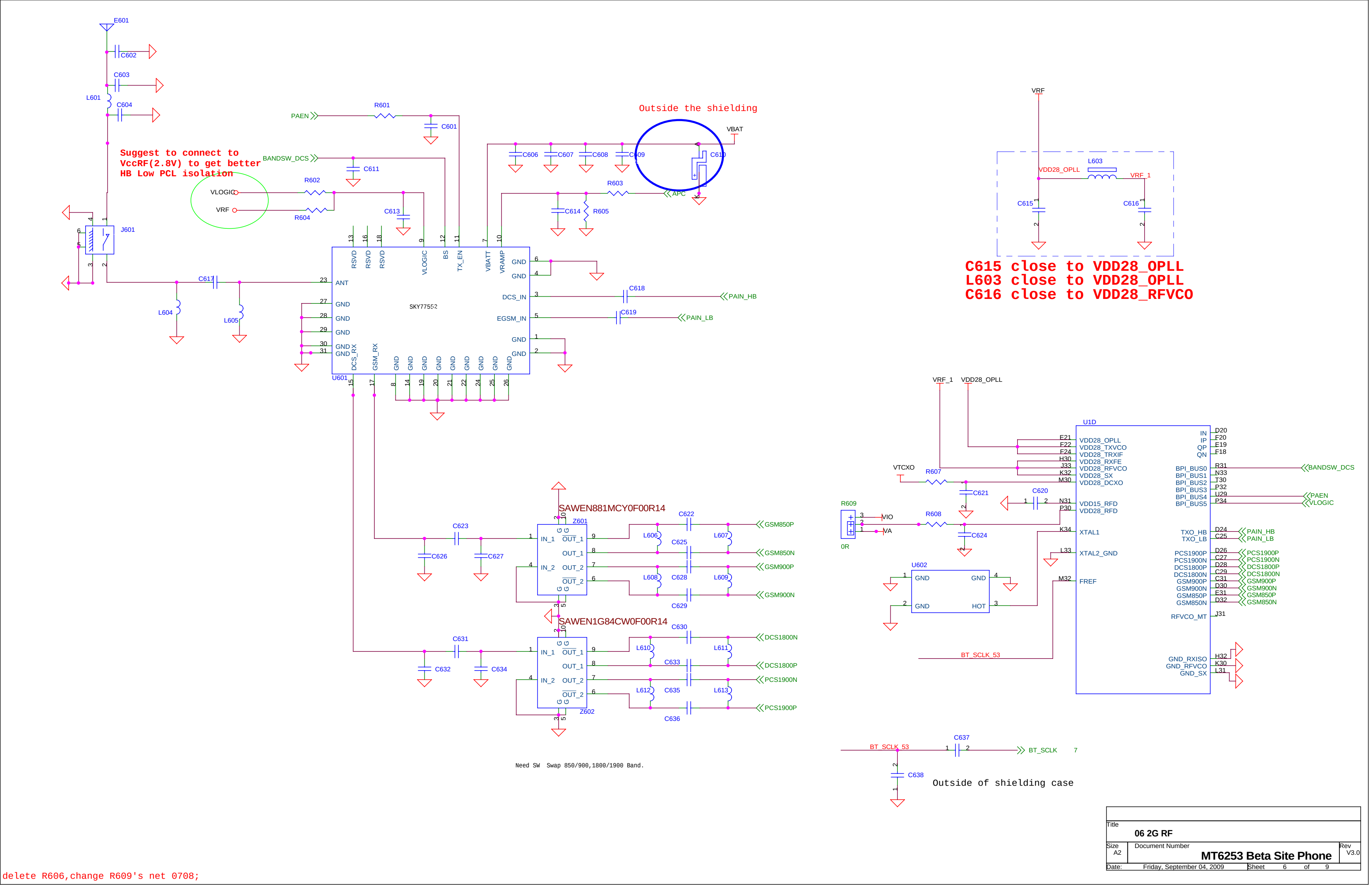
Length	18bit	16bit	9bit	8bit
Color	262K	65K	262K	65K
IM0	GND	GND	VCC	VCC
IM3	VCC	GND	VCC	GND

AVDD	Analog core	2V8
DVDD	Digital core	1V8
DOVDD	I/O	1V8/2V8

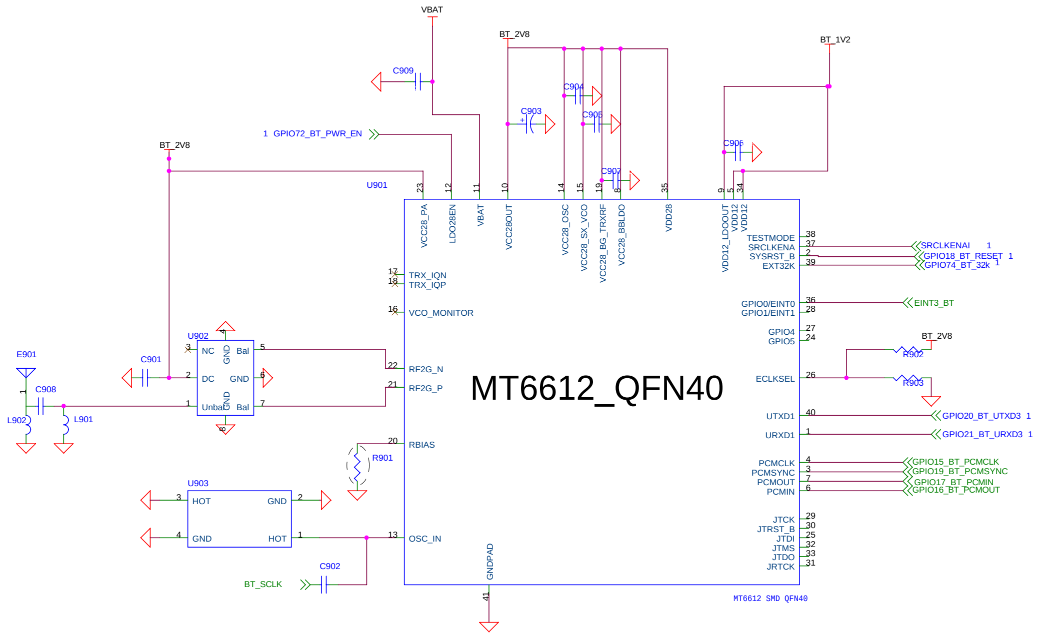
	KROW0	KROW1	KROW2	KROW3	KROW4	KROW5
KCOL0	F1	1	4	7	*	MP3
KCOL1	F2	2	5	8	0	NET
KCOL2	CALL	3	6	9	#	
KCOL3	V	^	<	>	OK	

LZ 0626 USE VBOOST AND SINK1~4 FOR LCM;
R503,R504 change tobe 2.2uF;0708
delete T502,503 0708

Title	05 LCD, Camera, Keypad, Flash Light		
Size A2	Document Number	MT6253 Beta Site Phone	Rev V3.0
Date:	Thursday, September 03, 2009	Sheet 5 of 9	


E601
C602
C603
C604
L601
PAEN
R601
C601
Outside the shielding
VBAT
Suggest to connect to
VccRF(2.8V) to get better
HB Low PCL isolation
BANDSW_DCS
C611
C606
C607
C608
C609
C610
R603
APC
R602
VLOGIC
VRF
R604
C613
C614
R605
J601
RSVD
VLOGIC
BS
TX_EN
VBATT
VRAMP
GND
ANT
C617
C618
PAIN_HB
DCS_IN
EGSM_IN
C619
PAIN_LB
SKY77552
L604
L605
DCS_RX
GSM_RX
U601
SAWEN881MCY0F00R14
Z601
C623
C626
C627
IN_1
IN_2
OUT_1
OUT_2
C622
C625
C628
C629
L606
L607
L608
L609
GSM850P
GSM850N
GSM900P
GSM900N
SAWEN1G84CW0F00R14
Z602
C630
C631
C632
C634
C633
C635
C636
L610
L611
L612
L613
DCS1800N
DCS1800P
PCS1900N
PCS1900P
Need SW Swap 850/900,1800/1900 Band.
VRF
VDD28_OPLL
L603
VRF_1
C615
C616
C615 close to VDD28_OPLL
L603 close to VDD28_OPLL
C616 close to VDD28_RFVCO
VRF_1
VDD28_OPLL
U1D
VDD28_OPLL
VDD28_TXVCO
VDD28_TRXIF
VDD28_RXFE
VDD28_RFVCO
VDD28_SX
VDD28_DCXO
VDD15_RFD
VDD28_RFD
XTAL1
XTAL2_GND
FREF
IN
IP
QP
QN
BPI_BUS0
BPI_BUS1
BPI_BUS2
BPI_BUS3
BPI_BUS4
BPI_BUS5
BANDSW_DCS
PAEN
VLOGIC
TXO_HB
TXO_LB
PAIN_HB
PAIN_LB
PCS1900P
PCS1900N
DCS1800P
DCS1800N
GSM900P
GSM900N
GSM850P
GSM850N
RFVCO_MT
GND_RXISO
GND_RFVCO
GND_SX
VTCXO
R607
C621
C620
R609
VIO
VA
0R
R608
C624
U602
GND
HOT
BT_SCLK_53
C637
BT_SCLK
C638
Outside of shielding case
Title
06 2G RF
Size A2
Document Number
MT6253 Beta Site Phone
Rev V3.0
Date: Friday, September 04, 2009
Sheet 6 of 9
delete R606,change R609's net 0708;

MT6612



CLK => NLD8
EDIWS ==> GPIO76 , IRDA_PDN
李政(Zheng Li) [10:07]:

王慈鴻(Erwin_Wang) [10:08]:
EDIDAT ==> UTXD2

LZ 0630GPIO24，28用作復用PCM；這里NC.
GPIO4，GPIO5用于處理和Wifi的沖突，這里無WIFI，NC；
GPIO1 used for HW flow control,compatible for other platform.

Title	09 MT6612	
Size A2	Document Number: MT6253 Beta Site Phone	Rev V1.0
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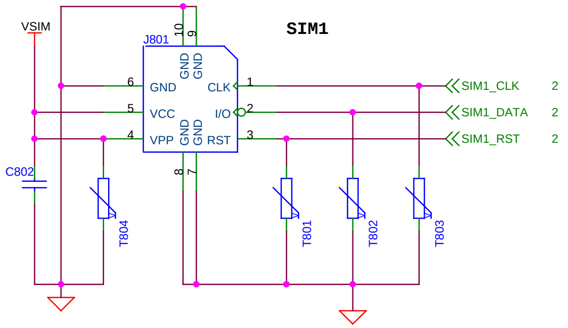
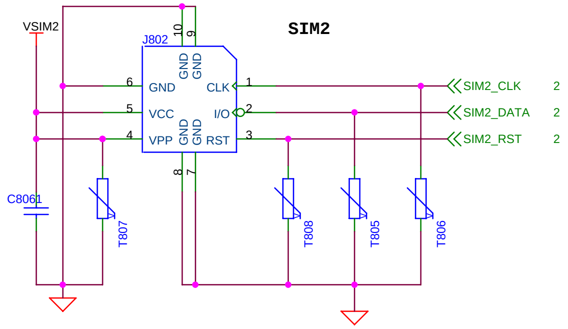
Dual SIM



SIM SOCKET



SIM SOCKET

Title: 15 Dual SIM		
Size: A3	Document Number: MT6253 Beta Site Phone	Rev: V3.0
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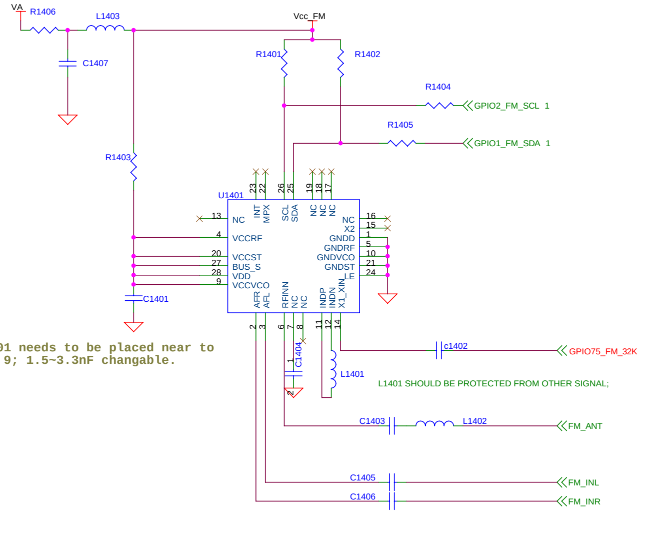
MT6188 FM



C1401 needs to be placed near to pin 9; 1.5~3.3nF changable.

1. If no WIFI, use WIFI_32KHZ to feed FM
2. WIFI, BT, FM 32KHz can't be shared for each others.

Title	14 FM (MT6188)	
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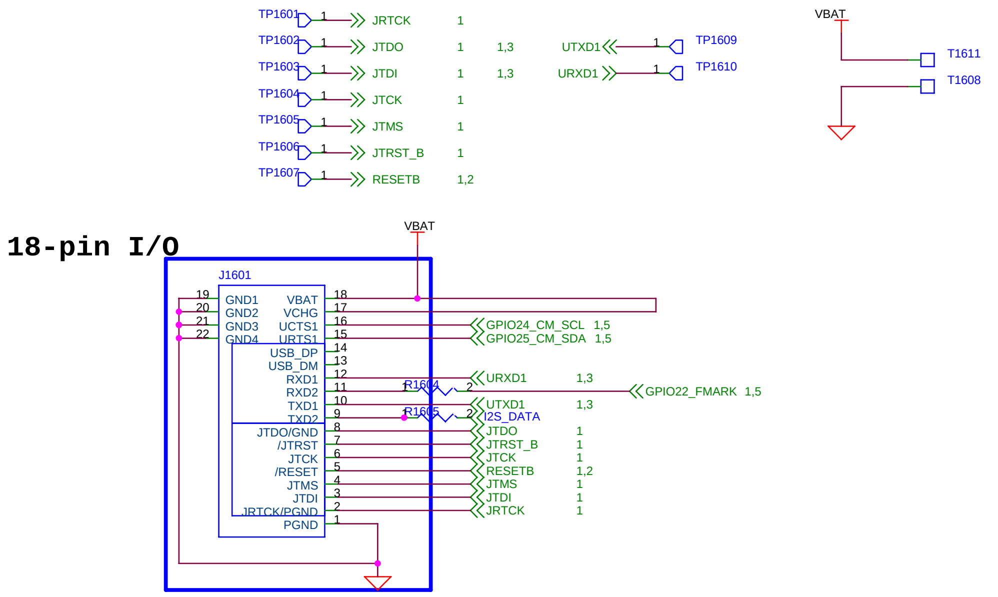
Extra 18 Pin I/O Connector



Title	16 Others-Extra Circuit		
Size A3	Document Number MT6253 Beta Site Phone		Rev V3.0
Date:	Thursday, September 03, 2009	Sheet 9 of 9	